

SAFETY DATA SHEET according to EC Directive 2001/58/EC

Bayer Environmental Science

CISLIN 2.5% WP

Version 1

Revision Date 04.07.2003



GB

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1. IDENTIFICATION OF THE SUBSTANCE/PREPARATION AND THE COMPANY/UNDERTAKING

Product Information

Trade name : CISLIN 2.5% WP
Product Code : AE F032640 00 WP03 A1
Specification : 214/2
Usage : insecticide

Company : Bayer CropScience (M) Sdn Bhd
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Emergency telephone Number : +6(03)2723 0888
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2. COMPOSITION/INFORMATION ON INGREDIENTS

Chemical nature

Wettable powder (WP), contains:
Deltamethrin 2.5% w/w

Hazardous Components

Chemical Name	CAS No.	Symbol(s)	R-phrase(s)	Concentration [%]
Deltamethrin	52918-63-5	T, N	R50/53 R23/25	2.50
1,2 Propanediol	57-55-6			>1.00 - <5.00
Fatty Alcohol Ethoxylate		Xi	R36/38	>1.00 - <5.00
Kaolin	1332-58-7			>50.00

3. HAZARDS IDENTIFICATION

Risk advice to man and the environment

Toxic to aquatic organisms, may cause long-term adverse effects in the aquatic environment.

4. FIRST AID MEASURES

General advice : Remove contaminated, soaked clothing immediately and dispose of safely.

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- Inhalation** : Move the patient to fresh air and keep at rest. If symptoms persist, call a physician
- Skin contact** : Take off all contaminated clothing immediately. Wash off immediately with soap and plenty of water. After skin contact: Apply Vitamin E cream or simple toilet milks. When symptoms persist or in all cases of doubt seek medical advice.
- Eye contact** : In the case of contact with eyes, rinse immediately with plenty of water and seek medical advice.
- Ingestion** : Do not induce vomiting. Wash out mouth with water. Keep at rest. Obtain medical attention.

Notes to physician

- Symptoms** : Local: After skin contact: paresthesia (local). May cause skin and eye irritation. Inhalation may provoke the following symptoms: irritation, cough
- Symptoms** : Systemic: excitement, gastrointestinal discomfort, tremor, Dizziness, headache, listlessness, nausea and vomiting, epigastric pain, muscular fasciculation of limbs, unconsciousness, convulsions and coma (very high doses)
- Risks** : This product/preparation contains a pyrethroid.
Must NOT be confused with organophosphorus compounds!
- Treatment** : Local treatment.
Initial treatment should be symptomatic and supportive.
After eye contact: Instillation of local anaesthetic drops e.g. 1% Amethocaine Hydrochloride eye drops. Give Analgesics as necessary.
- Treatment** : Systemic treatment
Endotracheal intubation should be done and gastric lavage performed, followed by administration of charcoal.
Monitoring of respiratory and cardiac functions
ECG - monitoring (Electrocardiogram)
Check for pulmonary oedema in event of inhalation.
Keep airway clear, administer artificial respiration if necessary.
Against convulsions: Give diazepam: for adults 5-10 mg intravenously as necessary until fully sedated, for children 2.5 mg i.v.
There is no antidote.
Contraindication: atropine
Contraindication: derivatives of adrenaline
Recovery: Spontaneous.

5. FIRE-FIGHTING MEASURES

- Suitable extinguishing media : water spray jet
carbon dioxide (CO₂)
dry powder
foam

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|---|---|
| Extinguishing media which must not be used for safety reasons | : Product itself is non-combustible, fire extinguishing measures to suit surroundings. |
| Specific hazards during fire fighting | : In case of fire the evolution of dangerous gases is possible |
| Special protective equipment for fire-fighters | : In the event of fire and/or explosion do not breathe fumes. Wear self contained breathing apparatus for fire fighting if necessary. |
| Further information | : Remove product from areas of fire, or otherwise cool containers with water in order to avoid pressure being built up due to heat.
Whenever possible, contain fire-fighting water by bunding area with sand or earth. |

6. ACCIDENTAL RELEASE MEASURES

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|---------------------------|---|
| Personal precautions | : Avoid dust formation.
Avoid contact with spilled product or contaminated surfaces.
When dealing with a spillage do not eat, drink or smoke |
| Environmental precautions | : Keep people and animals away.
Do not discharge into the drains/surface water/groundwater.
If spillage enters drains leading to sewage works inform local water company immediately.
If spillage enters rivers or watercourses, inform the Environment Agency (emergency telephone number 0800 807060). |
| Methods for cleaning up | : Vacuum up spilled product.
Transfer collected material to heavy duty plastic drums and keep safe for disposal.
Clean contaminated floors and objects thoroughly, observing environmental regulations |
| Additional advice | : Information regarding safe handling, see section 7.
Information regarding personal protective equipment, see section 8.
Information regarding waste disposal, see section 13.
Check also for any local site procedures. |

7. HANDLING AND STORAGE**Handling**

- | | |
|-------------------------|--|
| Advice on safe handling | : No specific precautions required when handling unopened packs/containers, follow relevant manual handling advice.
Avoid dust formation.
Provide good ventilation of working area (local exhaust ventilation if necessary). |
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Advice on protection against fire and explosion : The product is not combustible.

Storage

Requirements for storage areas and containers : Keep container tightly closed in a dry and well-ventilated place. Store in a place accessible by authorized persons only.

Further information on storage conditions : Protect against heat and direct sunlight
Protect against moisture.

Advice on common storage : Keep away from food, drink and animal feedingstuffs

Storage temperature : 0 - 30 °C

Suitable materials : Keep in original packaging, tightly closed.

8. EXPOSURE CONTROLS / PERSONAL PROTECTION

Refer to COSHH assessment (Control of substances Hazardous to Health Regulations 1989 as amended). Engineering controls should be used in preference to personal protective equipment wherever practicable.

Components with workplace control parameters

Components	CAS-No.	Control parameters	Update	Basis
1,2 Propanediol	57-55-6	10 mg/m ³ (TWA)	2001	EH40 OES
		474 mg/m ³ (TWA)	2001	EH40 OES
Kaolin	1332-58-7	2 mg/m ³ (TWA)	2002	EH40 OES

Personal protective equipment

Respiratory protection : Dust mask

Hand protection : Chemical resistant gloves
PVC gloves
nitrile gloves

Eye protection : Chemical resistant goggles must be worn.

Skin and body protection : Light protective clothing, PVC
PVC boots

Hygiene measures : When using, do not eat, drink or smoke.
Remove soiled clothing immediately.
Remove soaked clothing immediately.
Clean hands and face at work intervals and after work.
Work in an adequately ventilated room.



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1020300013/6**9. PHYSICAL AND CHEMICAL PROPERTIES****Appearance**

Colour : off-white

Safety data

Water solubility : Note: Miscible >

Partition coefficient (n octanol/water) : log Pow: 4.6
at: 25 °C Note: The value mentioned relates to the active ingredient deltamethrin.

Other information : The product is not combustible.

10. STABILITY AND REACTIVITY

Conditions to avoid : Note: Extremes of temperature and direct sunlight.

Materials to avoid : None

Hazardous reactions : No hazardous reactions when stored and handled according to prescribed instructions.
Note: Stable under normal conditions.**11. TOXICOLOGICAL INFORMATION**

Acute oral toxicity : LD50 (rat) > 16,000 mg/kg

Acute dermal toxicity : LD50 (rat) > 4,000 mg/kg

Skin irritation : rabbit
Result: slight irritant effect - does not require labellingEye irritation : rabbit
Result: slight irritant effect - does not require labelling

Further information : Cutaneous sensations may occur, such as burning or stinging on the face and mucosae. However, these sensations cause no lesions and are of a transitory nature (max. 24 hours)

12. ECOLOGICAL INFORMATION**Elimination information (persistence and degradability)**Bioaccumulation : Bluegill sunfish
Bioconcentration factor (BCF): 1,400



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10210001/1/26**Ecotoxicity effects**

- Toxicity to fish : LC50: 0.00001 mg/l
Rainbow trout (*Oncorhynchus mykiss*)
Exposure time: 96 h
- Toxicity to daphnia : EC50: 0.00006 mg/l
Water flea (*Daphnia magna*)
Exposure time: 48 h
- Toxicity to algae : EC50: > 0.1 mg/l
Algae
Exposure time: 72 h
- Toxicity to other organisms : LD50: > 2,250 mg/kg
Bobwhite quail
- Toxicity to other organisms : LD50: > 4,040 mg/kg
Mallard duck

Further information on ecology

- Additional ecological information : The ecological data given are those of the active ingredient deltamethrin

13. DISPOSAL CONSIDERATIONS

- Product : In accordance with current regulations may be taken to waste disposal site or incineration plant, after consultation with site operator and/or with the responsible authority
Can be landfilled or incinerated, when in compliance with local regulations.
Advice may be obtained from the local waste regulation authority (part of the Environment Agency in the UK).
- Contaminated packaging : Packaging that cannot be cleaned should be disposed of as product waste.
Empty containers can be landfilled after cleaning, when in compliance with the Environmental Protection (Duty of Care) Regulations 1991.
- Waste key for the unused product : 020108 agrochemical waste containing dangerous substances

14. TRANSPORT INFORMATION